CLAIMS

What is claimed is:

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1 8	A method comprising:
2	capturing an intensity at a location on a surface in a single pixel of an
3	image sensing array (ISA); and

4 converting the intensity into a measurement of distance to the location

- relative to a reference point independently of data from other pixels of the ISA.
- 1 2. The method of claim 1 wherein the ISA is a linear image sensor.
 - 3. The method of claim 2 wherein the linear image sensor is one of a linear charge coupled device (CCD) and a photo diode array.
 - 4. The method of claim 1 further comprising: comparing a plurality of captures of the intensity at the location under different conditions to compensate for non-homogenous environments or surface.
- 1 5. The method of claim 1 further comprising:
- 2 comparing a plurality of captures of the intensity at the location at
- 3 different points in time to compensate for non-homogeneous environments or
- 4 surfaces.

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- 1 Sub 7 6. A method comprising:
- 2 capturing an intensity at a location on a surface in an elementary group
- 3 of pixels on an image sensing array (ISA) without regard to intensity distribution
- 4 within the group; and

	5	SUB CONTO	converting the intensity into a measurement of distance to the location
	6	independen	tly of data from other pixels on the ISA.
	1	7.	The method of claim 6 wherein the ISA is a linear image sensor.
	1	8.	The method of claim 7 wherein the linear image sensor is one of a
	2	linear charg	e coupled device (CCD) and a photo diode array.
	1	9.	The method of claim 6 further comprising:
	2		comparing a plurality of captures of the intensity at the location under
1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	3	different co	nditions to compensate for non-homogenous environments or surfaces.
4	1	10.	The method of claim 6 further comprising:
The state of	 1 2 3 		comparing a plurality of captures of the intensity at the location at
in Head	3	different po	oints in time to compensate for non-homogeneous environments or
Hardy April Hard	4	surfaces.	
	1	SUB TIN	A method comprising:
	2	131	capturing a spectral energy distribution returned from a location on a
	3	surface in a	single pixel of an ISA; and
	4		converting the spectral energy distribution into a measurement of
	5	distance to	the location relative to a reference point independently of data from
	6	other pixels	of the ISA.
	1	12.	A method comprising:
	2		altering one of a spatial and optical relationship between an image

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sensing array (ISA) and a surface;

	4	observing a variation of an electrical signal at a single pixel on the ISA
	5	responsive to the alteration; and
	6	converting the variation to a measure of distance to a location on the
	7	surface relative to a reference point, independently of data from other pixels of the
.G	ANTE PORTE	ISA.
y	d,	13. A method comprising:
	2	altering one of a spatial and optical relationship between an image
	3	sensing array (ISA) and a surface;
de Contraction and the Land	4	observing a variation of an electrical signal at an elementary group of
	5	pixels on the ISA without regard to variations in electrical signals within the group
Î.	6	responsive to the alteration; and
ting, thus	7	converting the variation to a measure of distance to a location on the
1	8	surface relative to a reference point, independently of data from other pixels of the
	9	ISA.
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